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(71)Applicant : TORAY IND INC

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(54) POROUS CARBON SHEET AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To produce a porous carbon sheet having increased gas permeability in the thickness direction while keeping the mechanical strength relatively high and the specific resistance in the thickness direction relatively high.

SOLUTION: Short carbon fibers dispersed in random directions in a practically two-dimensional plane are bonded to one another with carbon to obtain the objective porous carbon sheet having ≥ 14.7 MPa bending strength, ≥ 0.49 MPa compressive strength in the thickness direction, ≤ 11.8 MPa modulus of compressive elasticity in the thickness direction, ≤ 0.010 m specific resistance in the thickness direction and $\geq 3,000$ ml.mm/cm²/hr/mmAq gas permeability in the thickness direction in air.

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